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IN THE CLAIMS:

Claims 1 - 8 (Canceled)

9. (Previously Presented) An apparatus for exercising a battery, comprising  
a charging circuit having a charging current output coupled to the battery;  
a temperature sensor positioned to sense a temperature related to the battery  
temperature;

a discharging circuit having a variable impedance load and a discharging current  
input coupled to the battery;

a controller coupled to said temperature sensor, said charging circuit, and said  
discharging circuit, said controller operable to set said charging current in accordance  
with said temperature, and operable to set said discharging current in accordance with  
said temperature, said controller being operable to minimize said charging current when  
said temperature is higher than a first predetermined threshold value; and

a memory coupled to said controller having a look up table with temperature  
versus discharging current and values of said variable impedance load stored therein,  
whereby said controller accesses said look up table to set said discharging current.

10. (Original) The apparatus of Claim 9 and wherein said controller continuously  
sets said discharging current in accordance with said temperature.

11. (Previously Presented) The apparatus of Claim 9 and wherein said controller  
periodically sets said discharging current in accordance with said temperature.

Claims 12 - 13 (Canceled)

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14. (Previously Presented) The apparatus of Claim 9 and wherein said controller is operable to set said discharging current to a maximum value when said temperature is lower than a second predetermined threshold value.

15. (Previously Presented) The apparatus of Claim 9 wherein said maximum value is the battery's maximum specified discharging current and said first predetermined threshold value is the battery's maximum discharging temperature.

16. (Canceled)

17. (Original) The apparatus of Claim 9 wherein said temperature sensor senses the temperature of the battery and said discharging circuit.

Claims 18 – 25 (Canceled)

26. (Previously Presented) A method of exercising a battery, comprising the steps of:

- sensing a temperature related to the battery temperature;
- setting a discharging current in accordance with said temperature by recalling a discharging current corresponding to said sensed temperature from a look up table;
- discharging the battery at said discharging current with a discharging circuit having a variable impedance load, the impedance of said load being selected from said look up table;
- discontinuing said discharging step when a predetermined battery voltage is reached;
- setting a charging current in accordance with said temperature, said setting step further including the step of minimizing said charging current when said temperature is higher than a first predetermined threshold value; and
- charging the battery at said charging current.

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27. (Original) The method of Claim 26 and wherein said sensing and setting a discharge current steps are repeated continuously during said discharging step.

28. (Original) The method of Claim 26 and wherein said sensing and setting a discharge current steps are repeated periodically during said discharging step.

29. (Canceled)

30. (Previously Presented) The method of Claim 26 and wherein said setting step includes setting said discharging current to a maximum value if said temperature is lower than a second predetermined threshold.

31. (Original) The method of Claim 30 and wherein said maximum value is the battery's maximum specified discharging current, and said first predetermined threshold is the battery's maximum discharging temperature.

32. (Canceled)

33. (Previously Presented) The method of Claim 26 wherein the battery is coupled to a load, and wherein said sensing step includes the step of sensing the temperature of the battery and the load.

Claims 34 – 43 (Canceled)